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**REMARKS**

The Applicant thanks the Examiner for the proposed claim amendments in the correspondence of June 13, 2007. The Applicant has amended the claims in accordance with the Examiner's proposal and in view of the Notice of Non-Compliance of July 12, 2007 and resubmits the claims 11-23 as previously presented in the Response of March 12, 2007.

With respect to the Examiner's questions on page 3 of the Proposed Examiner's Amendments, the Applicant notes that the position  $x$  as recited in the heat equation is the relative location of the temperature sensors with respect to one another as discussed in paragraph [061]. The heat equation as described in the specification, and recited in claims 13 and 23 relates to a specific location  $x$ . Another location  $x + dx$  as discussed, would of course result in another equation (not shown), and thus the resultant two equations, each having two unknowns, can then be solved.

In regards to the issue of thermal conductivity, the Jeffrey model provides theoretical thermal conductivity values, which permit the development of the family of curves representing the thermogram as described in paragraphs [049]-[057]. What is not known, is the *actual* thermal conductivity values. Hence, the heat equations as explained above with regards paragraph [061] and solving for the two unknowns, i.e., the actual thermal conductivity values in view of knowing the relative positions  $x$  and  $x+dx$  for each of the two heat equations.

If the Examiner disagrees with this explanation or position, or the language as amended, the Examiner is courteously invited to contact the undersigned Attorney of Record to discuss the same.

Also, newly submitted claims 22 and 23 now include the appropriate reference to independent claim 21. The Applicant hereby maintains the remarks provided in the previous response of March 12, 2007, but for purposes of brevity does not reiterate the same herein.

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In view of the foregoing, it is respectfully submitted that the raised objection to claim 14 should be withdrawn and this application is now placed in a condition for allowance. Action to that end, in the form of an early Notice of Allowance, is courteously solicited by the Applicant at this time.

The Applicant respectfully requests that any outstanding objection(s) or requirement(s), as to the form of this application, be held in abeyance until allowable subject matter is indicated for this case.

In the event that there are any fee deficiencies or additional fees are payable, please charge the same or credit any overpayment to our Deposit Account (Account No. 04-0213).

Respectfully submitted,



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